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Water Supply Outlook For Utah



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

UTAH STATE DEPARTMENT of NATURAL RESOURCES
-- DIVISION of WATER RIGHTS

AS OF
MAY 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta.T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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In Cooperation with

UTAH STATE DEPT. OF NATURAL RESOURCES

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SOIL CONSERVATION SERVICE
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PROSPECTIVE WATER SUPPLIES

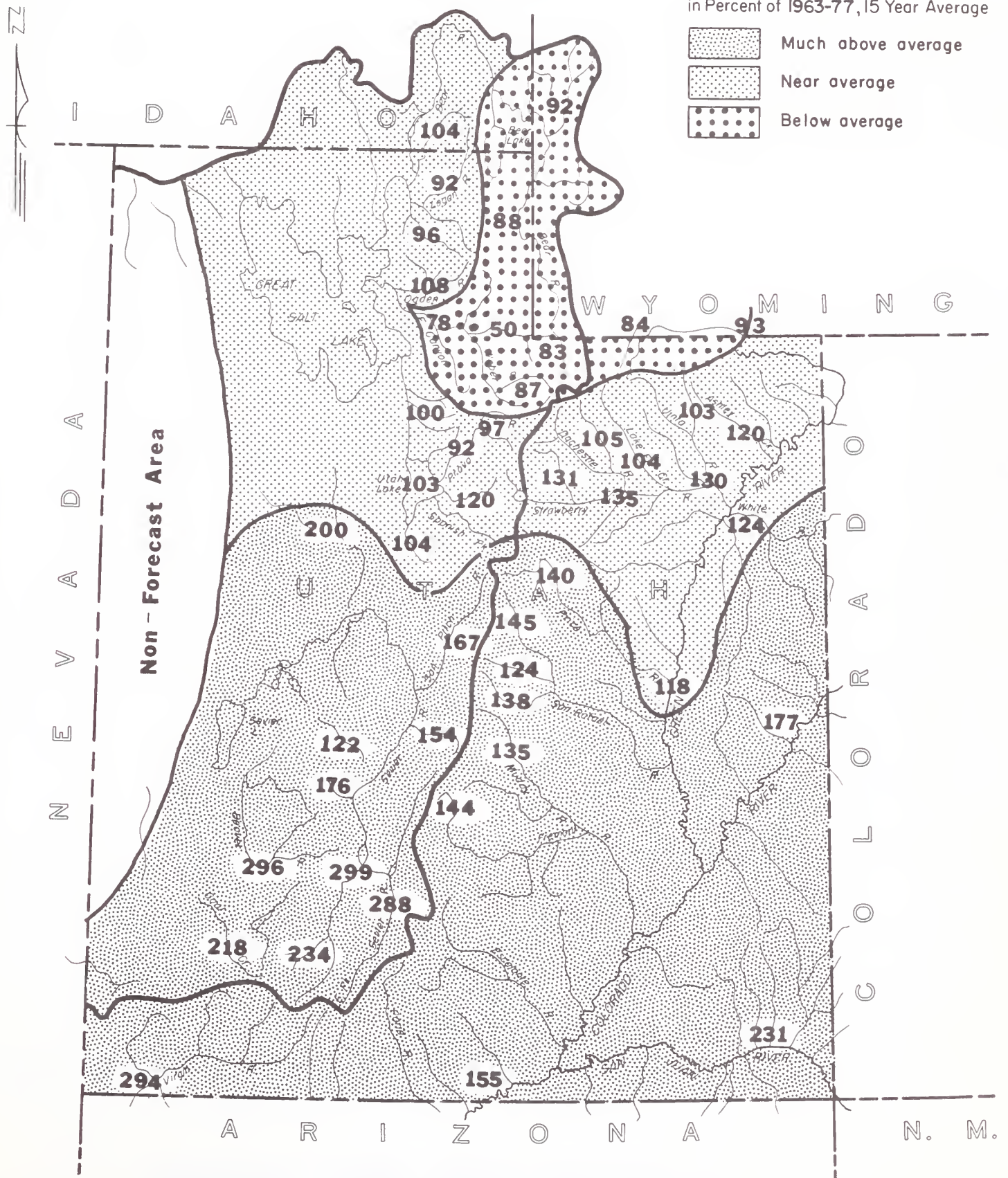
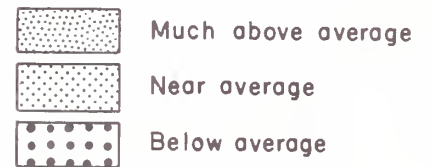
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

May 1, 1979

Approximate Date



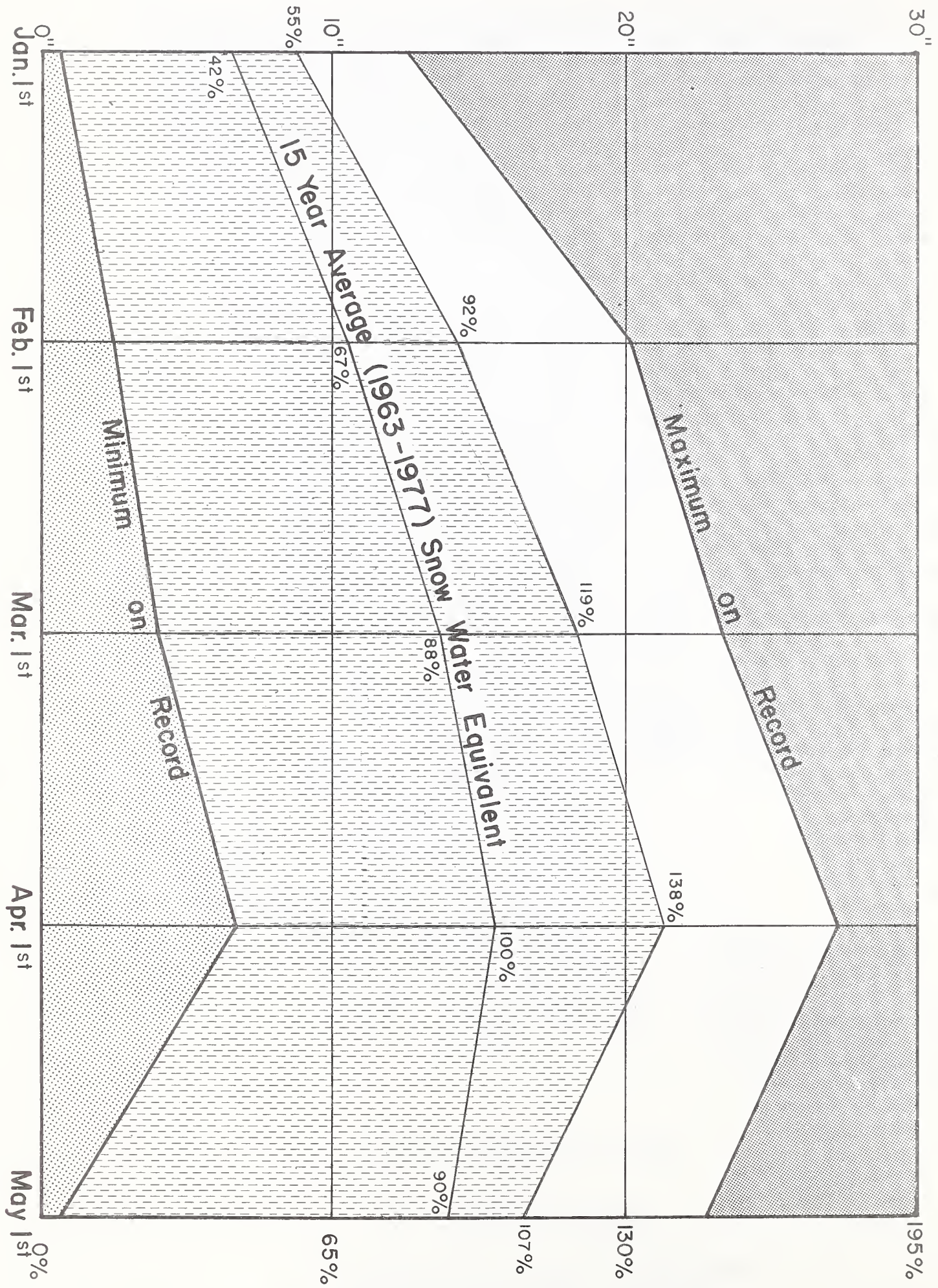
FORECAST STREAM FLOW
in Percent of 1963-77, 15 Year Average



UTAH'S WINTER SNOWPACK

Data based on 51 selected snow courses

INCHES OF SNOW WATER EQUIVALENT



PERCENT OF APRIL 1st SNOW WATER EQUIVALENT

1979 Snowpack



WATER SUPPLY OUTLOOK

as of
May 1, 1979

* * * * *
*
* Utah's 1979 Water Supply Outlook varies from near average *
* in northern Utah to much above average in southern Utah. *
* Snow cover ranges from about 2/3 average on the north slope *
* of the Uintahs to better than twice average on the Upper *
* Sevier and Coal Creek. Reservoir storage totals 105% of *
* the May 1 average. Streamflow forecasts range from 50% of *
* average on Chalk Creek near Coalville to 299% at Sevier *
* near Kingston. *
* * * * *

SNOW COVER

Snow surveys taken about May 1 range from 76% of average on the north slope of the Uintahs to 343% on the Blue Mountains near Monticello. Coal Creek is 229%, the Upper Sevier 227% and the Virgin River 197% of the May 1 average. The snow on medium elevation snow courses in this area was very wet and ready to melt and low elevation courses were already bare. The San Rafael was 125%, Fremont 156%, Price River 129%, Beaver 192%, and Lower Sevier 113%.

Vernon Creek had about three times its May 1 average, Strawberry River about 157%, Provo 110%, Weber 95%, Ogden 113%, Upper Bear 80%, and Lower Bear 96%. South slope Uintah Basins ranged from 94% on Lakefork and Yellowstone to 127% for the Uintah and Whiterocks. Ashley Creek is 97% of average.

PRECIPITATION

April precipitation was generally below average at mountain stations varying from 14% of average at Little Grassy in the southwest corner of the state to about 200% at Merchant Valley on the Beaver. All stations in northern and central Utah were below average. Most stations in central and eastern Utah were half average or less.

SOIL MOISTURE

Watershed soils range from below average in the northern half of the state to above average in southern Utah.

RESERVOIR STORAGE

Utah's 23 major irrigation reservoirs are 105% of the May 1. average. Reservoirs in the Sevier and Uintah Basins are still below average.

STREAMFLOW FORECASTS

Streamflow forecasts for the May-July period range from 50% of average on Chalk Creek to 299% on the Sevier at Kingston. Snow melt is progressing well in southern Utah with peak flows past on the Virgin and Santa Clara unless above average precipitation and/or temperature occurs in the next two or three weeks.

Snow melt in northern Utah is not producing as much streamflow as expected. Dry soils are reducing the amount of melt water getting into the streams. However, all water users are expected to have near average to well above average water supplies.



STREAMFLOW FORECASTS dropped again due to low April precipitation and now range from 67% of average for the Bear near Randolph to 96% for Little Bear near Paradise. Logan River is forecast 92% of the May-July average. Cub River is forecast 104% of the May-September average.

DEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Thousand Acre Feet	Percent of Average		Last Year	Average
BEAR RIVER					
Bear nr UT-Wyo. State Line	90	83	May-July	109	109
Bear nr Woodruff	100	79	May-July	111	126
Woodruff Crk nr Woodruff, UT	12.5	77	May-July	14.7	16.3
Big Creek nr Randolph, Utah	4.2	88	May-July	-	4.8b
Bear nr Randolph	62	67	May-July	49	92
Thomas Fork nr UT-Wy State Ln	31	89	Apr-Sept	54	35
Smith's Fork nr Border, Wyo.	110	92	Apr-Sept	160	120
Bear at Harer, Idaho 1/	235	87	May-Sept	-	271
Logan nr Logan 1/	96	92	May-July	118	104
Blacksmith Fork nr Hyrum	35	88	May-July	34	40
Little Bear nr Paradise	25	96	May-June	16.8	26
Cub River nr Preston, ID	51	104	May-Sept	53	49

- 1 - Observed flow corrected for change in storage and diversions
 2 - Provisional flows - Subject to correction
 b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	22	80	89
UPPER BEAR RIVER	10	72	80
LOWER BEAR RIVER	12	88	96
LOGAN RIVER	6	82	93

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
BEAR RIVER					
	Bear Lake	1421.0	1091.7	847.8	1098.4
	Woodruff Narrows	26.5	26.5	26.5	25.7
LITTLE BEAR					
	Hyrum	15.3	10.5	10.9	13.4
	Porcupine	11.3	11.3	11.4	8.7

+ - 1963-77 15 year Average Period
 e - estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
Bear River nr UT/WY Stateline	1100-1500	1600
Big Creek nr Randolph	50-90	-
Logan River nr Logan	850-1100	1016
Woodruff Creek nr Woodruff	200-400	267
Little Bear nr Paradise	460-780	517

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
BURTS-MILLER RANCH	4/26	0	0.0	0.0	3.0
CUB RIVER R.S.	4/26	0	0.0	0.0	0.0
EMIGRANT SUMMIT		Data Delayed			
FRANKLIN BASIN	4/25	56	24.8	33.5	27.0a
HAYDEN FORK	4/26	33	13.5	16.9	16.7
KLONDIKE NARROWS	4/25	32	15.1	19.0	16.8

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
LITTLE BEAR LOWER	4/26	0	0.0	0.0	2.1
LITTLE BEAR UPPER	4/25	20	8.4	0.0	6.7
MONTA CRISTO	4/25	54	24.7	28.9	27.6
SALT RIVER SUMMIT	4/27	34	14.2	19.4	15.4
STILLWATER CAMP	4/26	17	6.1	4.3	10.2b
TONY GROVE R.S.	4/25	10	4.2	0.0	3.8

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"The Conservation of Water begins with the Snow Survey"



STREAMFLOW FORECASTS have been reduced again this month due to less than average April precipitation and now range from 50% on Chalk Creek to 119% on Lost Creek. The Weber at Oakley is forecast 81% and Pineview Inflow 108% of the May-June average.

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Thousand Acre Feet	Percent of Average		Thousand Acre Feet	
				Last Year	Average
WEBER-OGDEN RIVERS					
Weber nr Oakley	78	81	May-June	108	96
Rockport Reservoir Inflow ¹	76	78	May-June	-	98
Chalk Creek at Coalville	16.5	50	May-June	30	33
Weber nr Coalville	80	77	May-June	-	104
Lost Creek nr Croydon, Utah	15.0	119	May-June	12.3	12.6
East Canyon Creek nr Morgan ¹	15.4	89	May-June	25	17.3
Hardscrabble Crk nr Porterville ¹	14.2	87	May-June	-	16.3b
South Fork Ogden nr Huntsville	45	107	May-June	42	42
Pineview Reservoir Inflow ²	82	108	May-June	76	76
Weber at Gateway	185	78	May-June	-	238
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	7.0	101	May-July	-	6.9

- 1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U.S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 b - Average of all past record - less than 15 years
 + -1963-77 15 year average period

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
OGDEN RIVER	4	87	113
WEBER RIVER	11	89	95

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useful Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
OGDEN	Causey	6.9	4.7	4.7	2.3b
	Pineview	110.1	92.0	94.4	76.9
WEBER	East Canyon	48.1	43.3	41.3	33.1
	Echo	73.9	63.0	64.5	55.2
	Lost Creek	20.0	15.2	16.7	13.9b
	Rockport	60.9	40.4	49.8	37.2
	Willard Bay	193.3	164.1	183.9	162.9b

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
South Fork Ogden nr Huntsville	500-700	772
Chalk Creek nr Coalville	100-300	-

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Beaver Creek R.S.	4/24	0	0.0	0.0	1.3
Beaver Creek-Skunk Creek	4/25	16	7.4	3.6	7.1
Ben Lomond Peak	4/25	93	44.6	56.9	37.2
Ben Lomond Trail	4/25	35	15.4	-	7.7b
Chalk Creek #1	4/26	50	20.4	24.4	25.4
Chalk Creek #2	4/26	29	11.3	10.6	15.3
Chalk Creek #3	4/26	0	0.0	0.0	3.5
Dry Bread Pond	4/25	44	19.3	21.4	19.0

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Horse Ridge	4/25	44	20.0	21.6	20.8b
Lost Creek Reservoir	4/25	0	0.0	0.0	0.0b
Monte Cristo	4/25	54	24.7	28.9	27.6
Parleys Canyon Summit	4/30	26	11.6	20.8	14.6
Sagebrush Flat	4/25	0	0.0	0.0	0.0
Smith & Morehouse	4/26	18	7.1	6.5	10.0
Trial Lake	4/24	67	25.0	30.4	26.1

e - estimated

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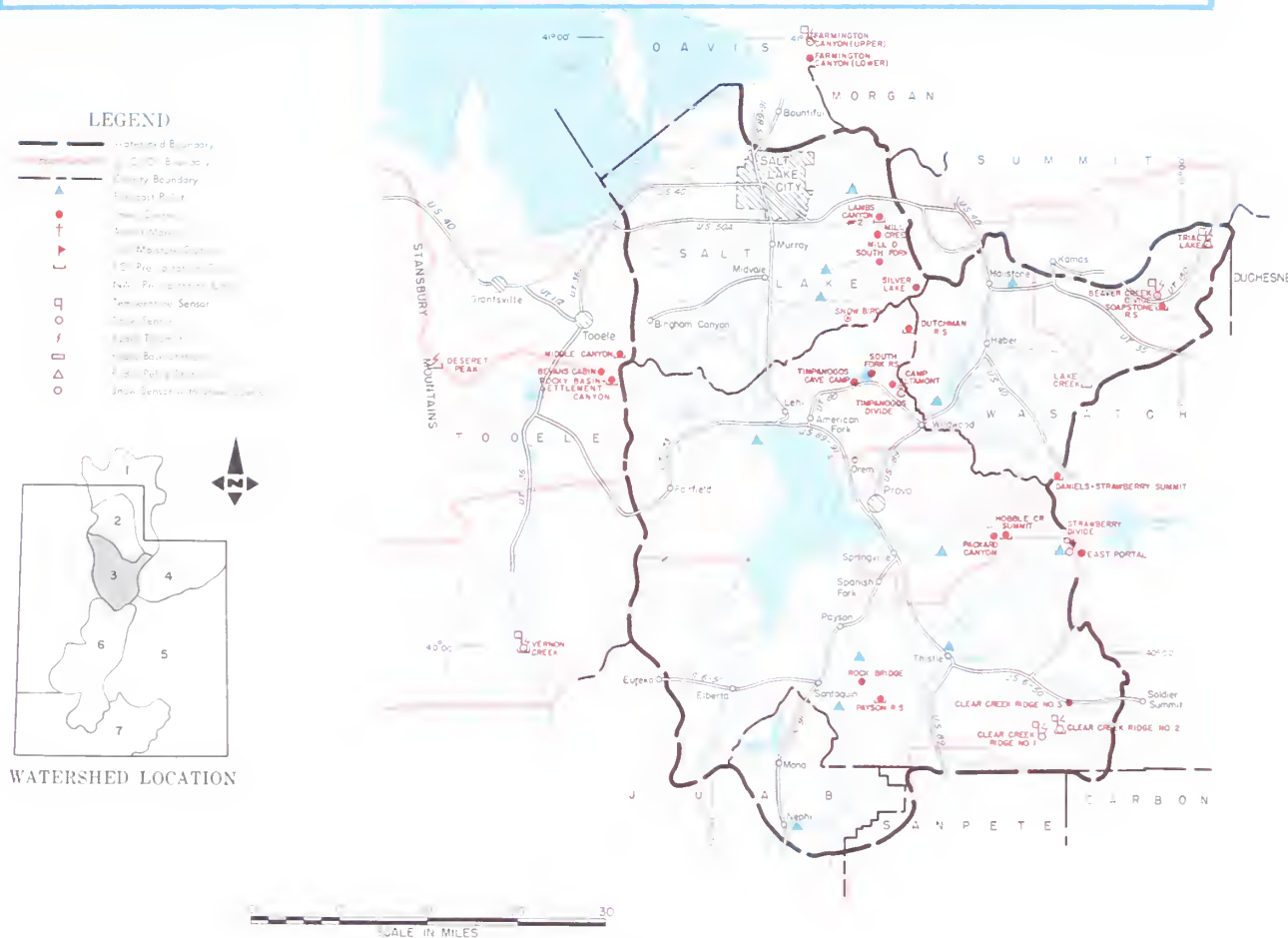
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WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



May 1, 1979

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER varies from 109% along the Salt Lake front to 113% in Tooele Valley. Vernon Creek measured about three times average and Beaver Creek Divide only about half average.

PRECIPITATION at mountain stations was below average and ranged from 23% of the April average at Timpanogos Divide to 78% at Vernon Creek.

SOIL MOISTURE is near average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 83% on Emigration Creek to 200% for Vernon Creek near Vernon. The Provo River is forecast 97% at Hailstone and 102% at Deer Creek Dam. Strawberry Reservoir is forecast 129%.

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone ¹	90	97	May-July	--	106
Provo below Deer Creek Dam ¹	100	102	May-July	--	100
American Fork nr American Fork	29	104	May-July	33	28
Hobble Creek or Springville	17.3	120	May-July	--	14.4b
Strawberry Reservoir Inflow ¹	54	129	May-July	50	42
Spanish Fork at Thistle	33	110	May-July	--	30b
Payson Creek nr Payson	5.3	104	May-July	--	5.1b
Utah Lake Inflow	180	103	May-July	--	174.3
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	31	89	May-July	--	35
Big Cottonwood nr SLC	34	100	May-July	38	34
Parley's Creek nr SLC	10.9	90	May-July	16	12.1
Mill Creek nr SLC	5.5	102	May-July	--	5.4
Emigration Creek nr SLC	2.4	83	May-July	--	2.9
City Creek nr SLC	6.1	88	May-July	--	6.9
TOOELE VALLEY					
Vernon Creek nr Vernon	1.2	200	May-July	--	0.6
Settlement Crk nr Tooele	2.3	--	May-July	--	--

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average†
<u>SPANISH FORK</u>	Strawberry	270.0	176.3	164.3	166.0
<u>UTAH LAKE</u>	Utah Lake	883.9	898.0	792.9	775.5
	Settlement Creek	1.2	0.8	0.8	--
	Vernon Creek	0.6	0.6	0.6	--
	Deer Creek	149.7	93.7	119.4	115.1
<u>PROVO</u>					

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Bevans Cabin	4/28	13	3.6	0.0	5.9
Camp Altamont	4/26	26	12.5	17.6	7.7
Clear Creek #1	4/25	46	19.1	22.8	17.7
Clear Creek #2	4/25	34	13.4	13.2	10.5
Clear Creek #3	4/25	0	0.0	0.0	0.1
Daniels-Strawberry Summit	4/24	29	12.7	16.2	9.5
Deseret Peak	4/25	69	24.9	36.7	--
Dutchman R.S.	4/26	32	13.8	22.0	9.8
Hobble Creek Summit	4/24	32	13.5	13.5	7.7
Lambs Canyon #2	4/30	16	6.1	11.5	--
Middle Canyon	4/28	28	12.5	4.9	10.4
Mill Creek	4/25	52	19.5	23.2	--

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	11	79	110
JORDAN RIVER & SALT LAKE	6	100	109
TOOELE VALLEY	4	115	113

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
a - Partly estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Hobble Creek nr Springville	150 - 250	260b
Spanish Fork nr Thistle	450 - 650	482b
Big Cottonwood nr Salt Lake City	400 - 550	--

SNOW

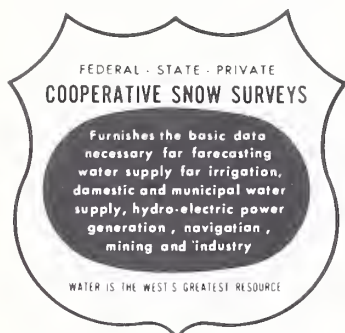
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Mill D South Fork	4/26	33	14.6	16.8	16.2
Parleys Canyon Summit	4/30	26	11.6	20.8	14.6
Payson R.S.	4/25	41	16.6	21.5	15.8
Rocky Basin-Settlement Canyon	4/25	72	27.8	38.2	30.2
Silver Lake Brighton	4/26	63	31.4	36.5	27.6
Soapstone R.S.	4/24	16	5.6	4.7	7.9
South Fork R.S.		Not Measured			
Timpanogos Divide	4/26	53	24.0	35.6	22.0
Trial Lake	4/24	67	25.0	30.4	26.1
Vernon Creek	4/27	30	13.0	6.5	4.0b

a - Partly Estimated
e - Estimated

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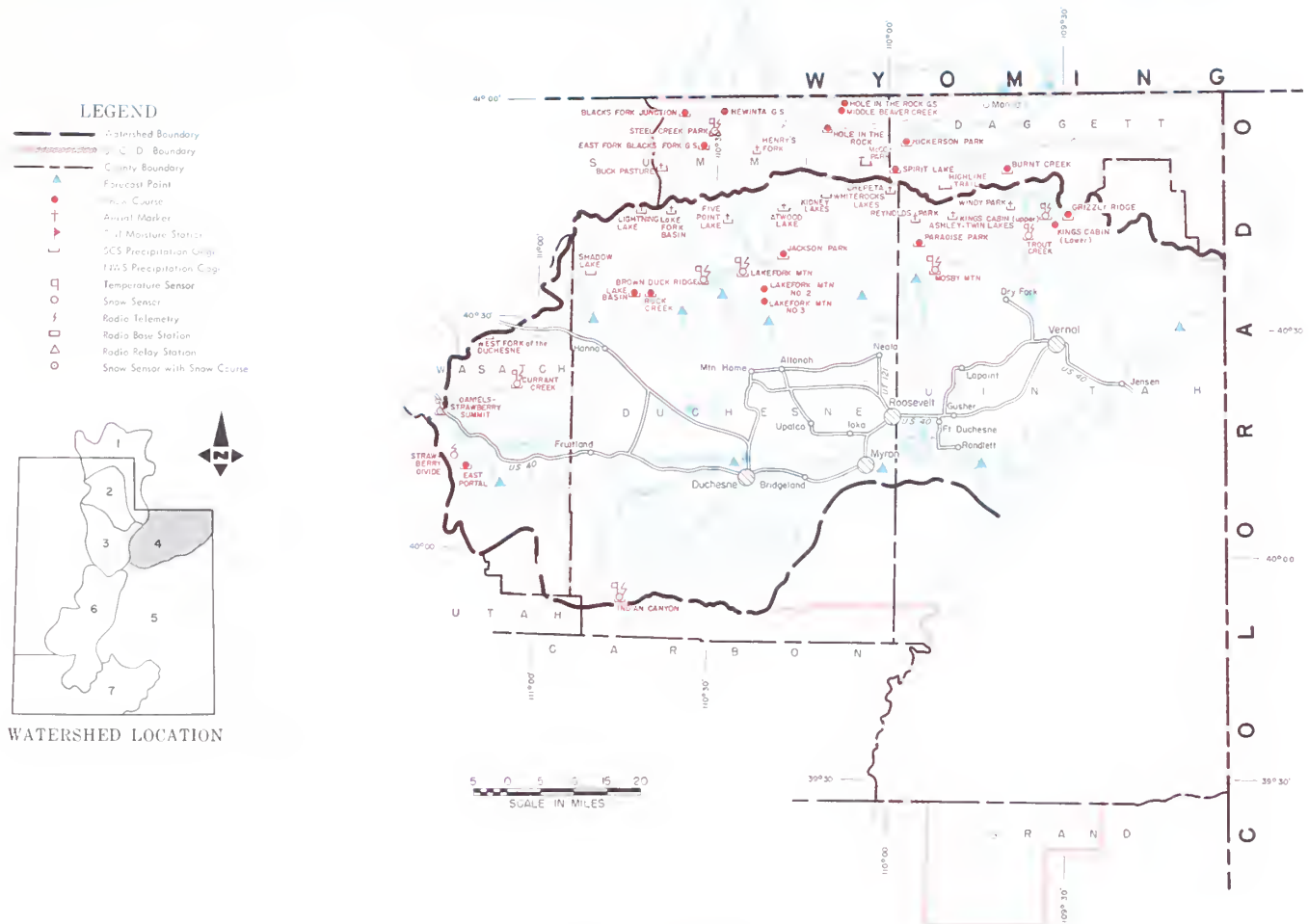
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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



May 1, 1979

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 76% of average on the north slope to 157% on Strawberry River. High aerial markers along the ridge of the Uintahs show near average snow water contents.

PRECIPITATION at mountain locations ranged from 21% of the April average at Curren Creek to 75% at Lakefork Mountain.

SOIL MOISTURE is near average on the south slope of the Uintahs, but below average on the north slope.

RESERVOIR STORAGE is still below average.

STREAMFLOW FORECASTS range from 81% on Henrys Fork to 135% for Strawberry at Duchesne. Lakefork is 104%, Ashley Creek 120%, and Duchesne at Tabiona 98%.

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>DUCHESNE RIVER</u>					
Duchesne nr Tabiona ¹	96	98	May-July	--	98
Duchesne at Duchesne ¹	170	94	May-July	--	180
Strawberry at Duchesne	65	135	May-July	--	48
Rock Creek nr Mtn. Home	96	105	May-July	112	91
Currant Creek nr Fruitland	21	131	May-July	15	16
Lakefork below Moon Lake ¹	72	104	May-July	67	69
Yellowstone nr Altonah	66	105	May-July	51	63
Duchesne at Myton ¹	250	130	May-July	--	193
Whiterocks nr Whiterock	60	103	May-July	46	58
Uintah nr Meola	88	99	May-July	68	89
Duchesne at Randlett ¹	275	124	May-July	134	222
West Fork Duchesne at Hanna	24	100	May-July	--	24
<u>FLAMING GORGE TO DUCHESNE RIVER</u>					
Henry's Fork at Manila	44	81	Apr-Sept	--	54
Black's Fork at Millburne	77	84	May-July	--	92
Flaming Gorge Inflow ¹	1200	93	Apr-July	1470	1292
Ashley Creek nr Vernal	60	120	May-July	37	50

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
DUCHESNE RIVER - TOTAL	11	104	124
LAKEFORK-YELLOWSTONE CREEKS	2	105	94
STRAWBERRY RIVER	3	101	157
UINTAH - WHITEROCKS RIVERS	2	105	127
ASHLEY CREEK	2	89	97
BLACK'S FORK	4	84	76

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
<u>ASHLEY CREEK</u>	Steinaker	33.3	15.3	10.2	23.7
<u>GREEN RIVER</u>	Flaming Gorge	3749.0	2475.0	2065.0	--
<u>LAKE FORK</u>	Moon Lake	35.8	12.0e	14.2	19.0
<u>STRAWBERRY</u>	Starvation	165.3	101.3	127.0	129.1b
<u>UINTAH</u>	Bottle Hollow	11.3	10.8	10.1	10.7b

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Strawberry at Duchesne	900-1450	656
Ashley Creek nr Vernal	750-1200	1030

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Brown Duck Ridge	4/24	63	21.5	23.6	20.2e
Currant Creek	4/24	13	5.9	3.4	2.3b
Daniels-Strawberry	4/24	29	12.7	16.2	9.5
Hewinta G.S.	4/26	22	9.0	8.3	10.4
Hickerson Park	4/26	22	7.0	3.9	5.9b
Hole-in-the-Rock		Not Measured			
Hole-in-the-Rock G.S.		Not Measured			
Jackson Park	4/24	48	16.0	15.8	--
Kings Cabin Upper	4/24	35	9.8	10.2	10.3

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Lakefork Mountain	4/24	36	10.7	12.3	11.9
Mosby Mountain	4/24	40	11.9	13.0	9.9
Paradise Park	4/24	54	18.8	16.2	14.3
Rock Creek Ranch	4/24	0	0.0	0.0	1.3b
Spirit Lake	4/26	44	15.3	12.1	15.5
Steel Creek Park	4/26	45	14.2	18.5	18.7
Strawberry Divide	4/30	48	20.1	20.1	--
Trout Creek	4/24	33	9.9	9.4	--

e - estimated

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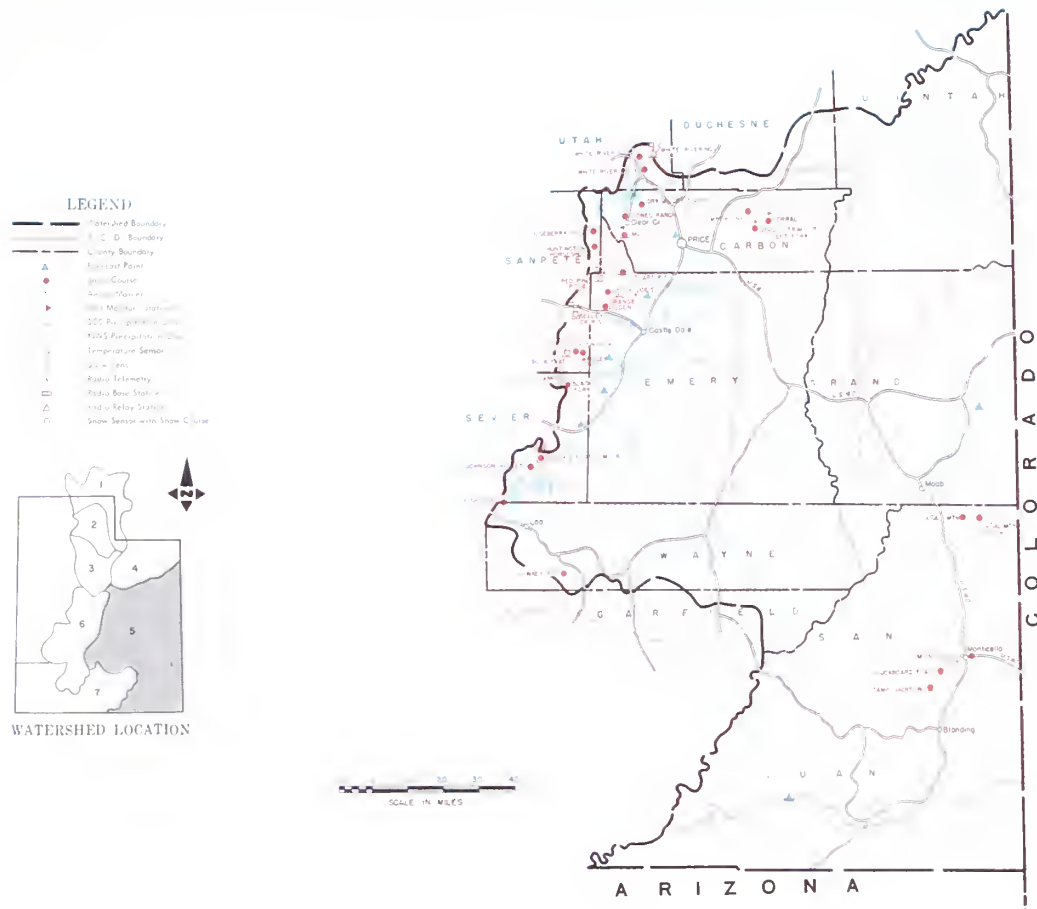
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



May 1, 1979

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER varies from 125% on the San Rafael to 343% of the May 1 average on the Blue Mountains above Blanding and Monticello. Snow courses on Blue Mountains set a new May 1 record water content, about two inches higher than May 1, 1973.

PRECIPITATION at mountain stations ranged from 14% of the April average on Huntington Creek to 167% at Fish Lake. LaSal and Blue Mountains were about half average.

SOIL MOISTURE is above average in the mountains and near capacity in the valleys.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 118% for the Green at Green River to 231% for the San Juan near Bluff. Scofield inflow is forecast 42%, Cottonwood 124%, Ferron Creek 138%, and Muddy Creek 135%.

CARBON, EMERY, HAYNE, GRAND and SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BASIN, STREAM and/or FORECAST POINT					
<u>PRICE RIVER</u>					
Gooseberry Crk nr Scofield	13.0	138	May-July	15.6	9.4
Scofield Reservoir Inflow	45	142	May-July	46	31
Price nr Heiner ¹	73	140	May-July	--	52b
<u>SAN RAFAEL RIVER</u>					
Huntington Crk nr Huntington	61	145	May-July	62	45b
Cottonwood Crk nr Orangeville	51	124	May-July	27	41b
Ferron Creek nr Ferron	44	138	May-July	37	32
<u>MUDDY CREEK</u>					
Muddy Creek nr Emery	21	135	May-July	25	15.5
<u>UPPER COLORADO BASIN</u>					
Colorado nr Cisco, Utah	4800	177	Apr-July	3884	2835
Green at Green River, Utah	3500	118	Apr-July	3560	2839
Mill Creek nr Moab	7.2	167	May-July	--	4.3b
Navajo Reservoir Inflow	1400	230	Apr-July	--	597
San Juan nr Bluff, Utah	2000	231	Apr-July	--	853
<u>FREMONT RIVER</u>					
Seven Mile Crk nr Fish Lake	8.2	144	May-July	--	5.7

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
PRICE RIVER	3	92	129
SAN RAFAEL RIVER	6	81	125
FREMONT RIVER	3	165	156
LASAL MOUNTAINS	2	102	181
BLUE MOUNTAINS	2	338	343

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
<u>PRICE RIVER</u>	Scofield	65.8	40.7	26.1	36.9
<u>SAN RAFAEL</u>	Huntington North	3.9	3.7	3.8	3.9b
	Joe's Valley	54.6	40.7	29.2	39.1b
	Mill Site	16.7	11.1	3.8	--
<u>SAN JUAN</u>	Navajo	1696.0	1247.8	1029.0	--

+ - 1963-77 15 Year Average Period
b - Average of all past record - less than 15 years

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Ferron Creek near Ferron	550-750	422
Muddy Creek near Emery	150-250	154

SNOW

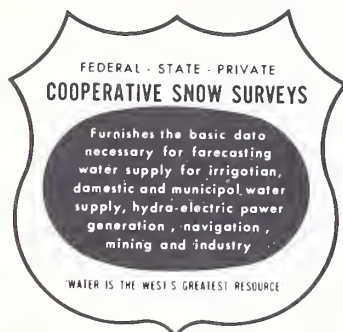
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Buck Flat	4/25	50	19.9	26.4	15.4
Buckboard Flat	4/25	50	22.0	4.6	7.1
Camp Jackson	4/25	52	22.3	8.5	5.8
Dills Camp	4/25	31	11.1	20.1	9.9a
Dry Valley Divide Alternate	4/25	16	5.6	1.8	--
Huntington-Horseshoe	4/26	70	30.0	39.3	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Mammoth-Cottonwood R.S.	4/26	54	25.0	30.3	19.1
Monticello City Park	4/26	0	0.0	0.0	--
Mud Creek	4/27	27	9.6	12.7	7.9
Seeley Creek	4/25	54	20.5	24.8	17.2
White River #1	4/25	38	15.4	14.4	10.5
White River #3	4/27	0	0.0	0.0	1.0b

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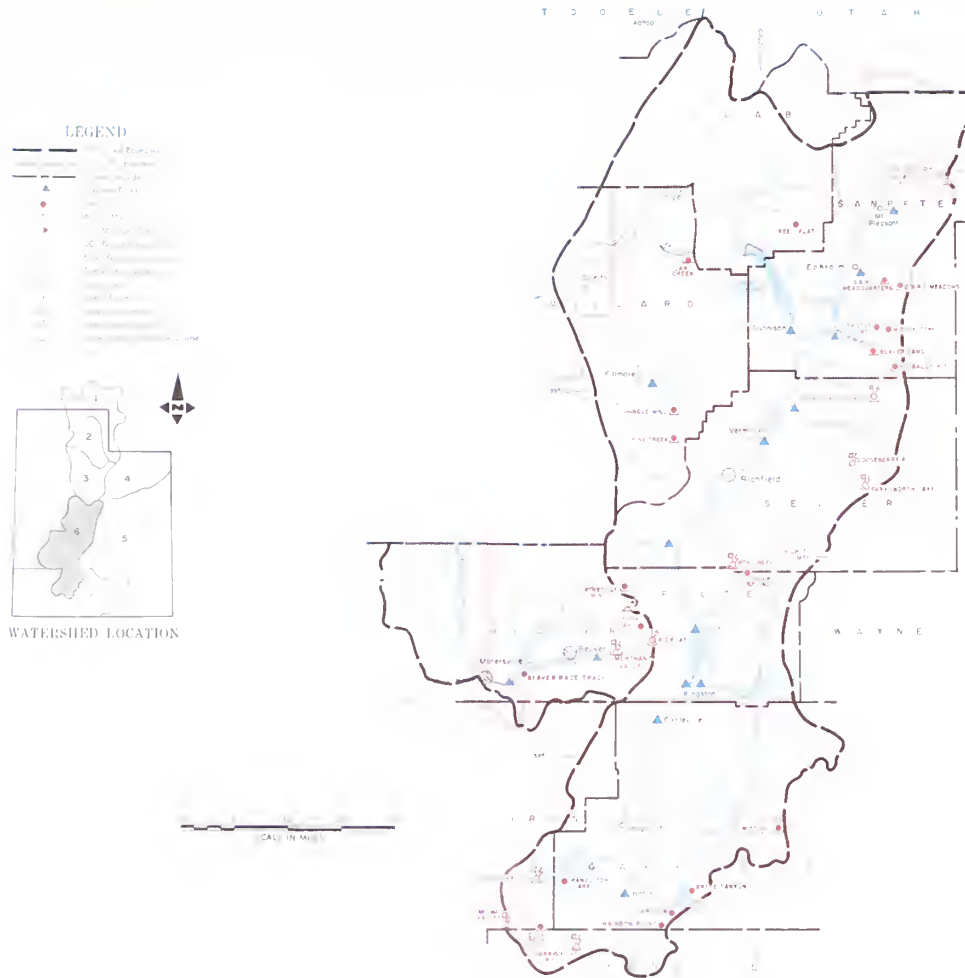
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



May 1, 1979

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE TO EXCELLENT

SNOW COVER ranges from 113% of the May 1 average on Lower Sevier to 252% on the South Fork above Kingston. The East Fork is now 175% and Beaver 192%.

PRECIPITATION at mountain stations ranged from 38% of the April average at Mt. Baldy on the Lower Sevier to 197% at Panguitch Lake on the Upper Sevier.

SOIL MOISTURE is above average on the Upper Sevier and near average on the Lower Sevier.

STREAMFLOW FORECASTS range from 117% for Chicken Creek near Levan to 229% for the South Fork Sevier near Kingston. The Sevier is forecast 234% at Hatch and 150% at Gunnison. Chalk Creek is forecast 122% and Beaver River 172% at Beaver and 296% for Minersville inflow.

RESERVOIR STORAGE on the Sevier is still below average. Minersville Reservoir is 117% of its May 1 average.

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
SEVIER RIVER					
Sevier at Hatch	82	234	May-July	45	35
Sevier nr Circleville	60	261	May-July	--	23
Sevier nr Kingston	52	299	May-July	--	16.9
Antimony Crk nr Antimony	12.5	223	May-July	--	5.7b
East Fork Sevier nr Kingston	30	288	May-July	--	10.5
Sevier below Piute Dam	79	293	May-July	--	27
Clear Crk nr Sevier (abv Div Inflow)	27	176	May-July	--	15.3
Kingston to Vermillion Dam	90	180	Apr-June	--	50
Vermillion Dam to Gunnison	50	143	Mar-June	--	35
Salina Creek at Salina	16.0	154	May-June	--	10.4
Sevier nr Gunnison	57	150	May-July	--	38
Chalk Creek nr Fillmore	16.0	122	May-July	--	13.1
Chicken Creek nr Levan	2.8	117	May-July	--	2.4
Oak Cr. nr Oak City	(DATA NOT AVAILABLE)				
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	22.0	167	May-July	--	13.2b
Pleasant Crk nr Mt. Pleasant	11.5	146	May-July	--	7.9b
BEAVER RIVER					
Beaver nr Beaver	31	172	May-July	34	18.0
North Creek (Combined)	15.7	131	May-July	--	12.0b
Minersville Reservoir Inflow	16.0	296	May-June	--	5.4
RESERVOIR STORAGE (Thousand Acre Feet)					

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average†
SEVIER RIVER	Gunnison	18.2	17.2	9.4	14.9
	Otter Creek	52.5	43.7	32.3	39.5
	Piute	71.8	45.4	24.2	47.1
	Sevier Bridge	236.0	123.9	103.7	144.6
BEAVER RIVER	Minersville (Rky Fd)	23.3	17.9	8.8	15.3
b - Average of all past record - less than 15 years					
c - 1963-77 15 Year Average Period					
d - Estimated					

b - Average of all past record - less than 15 years
 + - 1963-77 15 Year Average Period
 e - Estimated

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER	9	162	227
East Fork Sevier	3	152	175
South Fork Sevier	6	166	252
LOWER SEVIER	8	84	113
BEAVER RIVER	3	103	192

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

1 - Observed flow corrected for change in storage and diversions
 2 - Provisional flows - Subject to correction

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Sevier River at Hatch	800 - 1200	428
Sevier River nr Kingston	700 - 1000	300
Clear Creek nr Sevier	350 - 450	--
Salina Creek nr Salina	700 - 900	--
Beaver River nr Beaver	350 - 550	211

SNOW

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Big Flat	4/30	75	30.2	30.2	18.6
Bryce Canyon	4/30	7	2.9	0.0	- -
Castle Valley	4/23	54	22.2	8.5	7.2
Duck Creek	4/26	52	25.4	18.6	7.8
Farnsworth Lake	4/30	55	22.4	24.0	22.2
Gooseberry R.S.	4/30	15	6.2	9.0	10.2

SNOW

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Harris Flat	4/26	27	20.2	2.4	2.1
Kimberly Mine	4/30	51	22.4	17.4	15.8
Long Valley Junction	4/26	0	0.0	0.0	0.0b
Merchants Valley Upper	4/30	37	15.8	13.2	5.9b
Midway Valley	4/26	94	42.2	36.2	21.5
Otter Lake	4/30	57	24.4	24.8	12.1
Pickle Keg Springs	4/25	44	16.7	22.2	15.1b
Widtsoe-Escalante #3	4/23	57	21.2	12.8	9.0

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



May 1, 1979

THE WATER SUPPLY OUTLOOK IS EXCELLENT

SNOW COVER ranges from 145% on Parowan Creek to 229% of the May 1 average on Coal Creek. Virgin River is now 197% of average.

PRECIPITATION at mountain stations varied from 14% of the April average at Little Grassy to 129% at Yankee Reservoir.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 155% for the inflow to Lake Powell to 294% on the Virgin near Hurricane.

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
<u>VIRGIN RIVER</u>					
Virgin nr Hurricane	91	294	May-June	- -	30
Santa Clara nr Pine Valley	5.5	145	May-June	- -	3.8
<u>COAL CREEK</u>					
Coal Creek nr Cedar City	31	218	May-July	- -	14.2
<u>UPPER COLORADO</u>					
Lake Powell Inflow	10800	155	Apr -July	8995	6881
2 - Provisional Flows - Subject to correction					

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
COAL CREEK	3	117	229
VIRGIN RIVER	3	101	197
PAROWAN CREEK	4	130	145

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
<u>COLORADO</u>	Lake Powell	25002.0	17380.0	14996.0	- -
	Blue Mesa	829.5	274.0	289.5	- -
b - Average of all past record - less than 15 years					
+ - 1963-77 15 year Average Period					

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
Coal Creek nr Cedar City	1000 - 1400	269
Virgin nr Hurricane	1300 - 1800	---

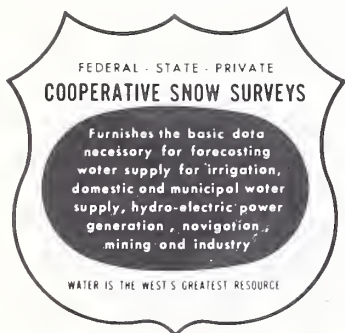
SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
NAME					
Birch Crossing	4/30	0	0.0	0.0	2.5b
Brian Head	4/30	73	32.6	29.2	20.8b
Harris Flat	4/26	27	20.2	2.4	2.1
Kolob-Crystal	4/30	78	38.9	37.0	22.5a
Little Grassy	4/27	0	0.0	0.0	0.2
Long Flat	4/30	0	0.0	0.0	2.3

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
NAME					
Long Valley Junction	4/26	0	0.0	0.0	0.0b
SUSC Ranch	4/26	24	11.5	3.8	2.5b
Tall Poles	4/30	42	18.8	14.8	12.3b
Webster Flat	4/30	59	32.7	33.6	13.8
Yankee Reservoir	4/30	25	10.4	3.6	7.0

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SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Big Park	4/30	44	17.8	27.4	22.7						
Burts-Miller Ranch	4/26	0	0.0	0.0	3.0	4/26	1.37	2.66b	8.57	14.66b	58
CCC Camp	4/27	22	8.4	10.2	10.4						
Hayden Fork	4/26	33	13.5	16.9	16.7	4/26	1.50	4.08b	21.43	24.14	89
Kelly R.S.	4/30	40	15.4	26.4	19.0						
Monte Cristo R.S.	4/25	54	24.7	28.9	27.6	4/25	4.80	5.22	30.42	31.17	98
Poison Meadows	4/30	60	26.6	41.0	32.3						
Salt River Summit	4/27	34	14.2	19.4	15.4	4/27	2.43	2.53	18.31	19.76	93
Snider Basin	4/30	27	12.2	19.6	16.2						
Stillwater Camp	4/26	17	6.1	4.3	10.2b	4/26	1.25	3.40	12.10	15.79	77
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	4/26	46	19.1	18.2	19.2a						
Cub River R.S.	4/26	0	0.0	0.0	0.0						
Franklin Basin	4/25	56	24.8	33.5	27.0a						
Garden City Summit	4/25	42	18.1	17.5	18.5	4/25	1.94	3.10	21.21	22.33	95
Klondike Narrows	4/26	32	15.1	19.0	16.8	4/25	1.04	- -	19.03	- -	- -
Little Bear (lower)	4/25	0	0.0	0.0	2.1						
Little Bear (upper)	4/25	20	8.4	0.0	6.7						
Steep Hollow #1	4/25	87	38.6	47.6	40.8						
Steep Hollow #2	4/25	49	22.3	32.6	25.2						
Tony Grove Lake	4/25	76	34.4	48.8	37.6a						
Tony Grove R.S.	4/25	10	4.2	0.0	3.8	4/25	.48	- -	19.62	- -	- -
Willow Flat	4/26	22	10.2	4.2	5.5b	4/25	1.38	4.62b	23.99	27.51	87
OGDEN RIVER											
Beaver Creek-Skunk Creek	4/26	16	7.4	3.6	7.1						
Ben Lomond Peak	4/25	93	44.6	56.9	37.2						
Ben Lomond Trail	4/25	35	15.4	- -	7.7b	4/25	2.68	5.38b	30.84	34.12b	92
Causey Dam						4/25	1.61	2.42	15.06	16.64	91
Dry Bread Pond	4/25	44	19.3	21.4	19.0	4/25	2.80e	4.44b	- -	25.28	- -
North Fork		Not Measured									
Sagebrush Flat	4/25	0	0.0	0.0	0.0	4/25	1.97	2.48b	15.76	16.83	94
WEBER RIVER											
Beaver Creek R.S.	4/24	0	0.0	0.0	1.3						
Chalk Creek #1	4/26	50	20.4	24.4	25.4						
Chalk Creek #2	4/26	29	11.3	10.6	15.3						
Chalk Creek #3	4/26	0	0.0	0.0	3.5	4/26	1.83	3.45b	12.25	17.39b	70
East Shingle Lake (A)	4/27	75	27.8	35.3	- -						
Farmington Canyon (lower)	4/25	63	29.7	29.9	22.5	4/25	3.88	6.29b	30.54	33.92	90
Farmington Canyon (upper)	4/25	79	35.1	44.1	33.3						
Farmington G.S.						4/25	4.94	- -	27.05	- -	- -
Horse Ridge	4/25	44	20.0	21.6	20.8b	4/25	3.86	4.74b	27.77	28.38	98
Killfoil Creek	4/25	34	14.2	9.2	10.3b						
Lost Creek Reservoir	4/26	0	0.0	0.0	0.0b	4/25	1.23	- -	12.40	- -	- -
Park City Summit		Not Measured									
Parley's Canyon Summit	4/30	26	11.6	20.8	14.6	4/30	4.54	5.03	23.40	27.58	85
Redden Mine (lower)		Not Measured									
Redden Mine (upper)							Not Measured				
Sergeant Lake (A)	4/27	36	14.0	20.6	- -						
Smith & Morehouse	4/26	18	7.1	6.5	10.0	4/26	1.80	4.26	16.82	22.01	76
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	4/24	10	3.8	4.0	8.7a						
Camp Altamont	4/26	26	12.5	17.6	7.7						
Clear Creek Ridge #1	4/25	46	19.1	22.8	17.7						
Clear Creek Ridge #2	4/25	34	13.4	13.2	10.5	4/25	1.95	3.31	20.02	19.37	103
Clear Creek Ridge #3	4/25	0	0.0	0.0	0.1						
Dutchman R.S.	4/26	32	13.8	22.0	9.8	4/26	1.50	4.17b	- -	24.99	- -
Hobble Creek Summit	4/24	32	13.5	13.5	7.7	4/24	1.30	3.20	20.00	20.39	98
Payson R.S.	4/25	41	16.6	21.5	15.8	4/25	2.20	3.58	24.05	21.53	112
Rock Bridge		Not Measured									
Soapstone R.S.	4/24	16	5.6	4.7	7.9	4/24	.95	3.57	16.14	19.79	82
South Fork R.S.		Not Measured									
Timpanogos Cave Camp	4/26	0	0.0	0.0	- -						

SNOW

SNOW	THIS YEAR				PAST RECORD		PRECIPITATION (Inches)					
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME												
PROVO RIVER & UTAH LAKE cont'd												
Timpanogos Divide	4/26	53	24.0	35.6	22.0	4/26	1.00	4.30	31.45	29.39	107	
Trial Lake	4/24	67	25.0	30.4	26.1	4/24	1.89a	4.89	26.66	28.73	93	
JORDAN RIVER & GREAT SALT LAKE												
Bevan's Cabin	4/28	13	3.6	0.0	5.9							
Deseret Peak	4/25	69	24.9	36.7	- -							
Lamb's Canyon #2	4/30	16	6.1	11.5	- -	4/30	3.29	- -	20.04	- -	- -	
Middle Canyon	4/28	28	12.5	4.9	10.4	4/28	3.20	4.28b	21.70	20.20	107	
Mill Creek	4/25	52	19.5	23.2	- -							
Mill D South Fork	4/26	33	14.6	16.8	16.2							
Mt. Dell Dam							Data Delayed					
Rocky Basin-Settlement Canyon	4/25	72	27.8	38.2	30.2							
Silver Lake (Brighton)	4/26	63	31.4	36.5	27.6		Data Delayed					
Snow Bird (Gad Valley)	4/29	94	42.0	51.8	- -							
Vernon Creek	4/27	30	13.0	6.5	4.0b	4/27	2.00	2.58b	21.00	17.85	118	
UPPER SEVIER RIVER (South of Richfield, Utah)												
Box Creek	4/30	45	17.6	13.6	12.1	4/30	4.72	2.99	24.62	16.88	146	
Bryce Canyon	4/30	7	2.9	0.0	- -							
Castle Valley	4/23	54	22.2	8.5	7.2	4/23	6.20	3.24	29.25	17.13	171	
Duck Creek R.S.	4/26	52	25.4	18.6	7.8							
Farview	4/30	19	10.7	- -	- -							
Harris Flat	4/26	27	20.2	2.4	2.1							
Kimberly Mine	4/30	51	22.4	17.4	15.8	4/30	6.12	4.44b	28.50	22.61	126	
Midway Valley	4/26	94	42.2	36.2	21.5							
Panguitch Lake	4/23	19	6.5	0.4	0.8	4/23	2.95	1.50	16.85	9.39	179	
Rainbow Point	4/30	36	17.0	- -	- -							
Squaw Springs	4/30	15	6.2	3.3	4.6							
Widtsoe-Escalante #3	4/23	57	21.2	12.8	9.0	4/23	1.60	3.14	25.90	15.21	170	
LOWER SEVIER RIVER (Including San Pitch River)												
Beaver Dams	4/25	26	11.5	8.7	1.4	4/25	1.66	3.27	20.50	16.34	125	
Farnsworth Lake	4/30	55	22.4	24.0	22.2	4/30	6.01	4.69	23.91	24.25	99	
G.B.R.C. Headquarters	4/25	47	20.4	20.3	16.1	4/25	2.90	4.26	24.70	22.55	110	
G.B.R.C. Majors						5/1	2.00	2.15b	13.85	10.66	130	
G.B.R.C. Meadows	4/25	71	28.8	35.6	25.1	4/25	2.30	5.17	30.17a	26.84	112	
G.B.R.C. Oaks						5/1	2.30	3.01	17.15	14.88	115	
Gooseberry R.S.	4/30	15	6.2	9.0	10.2	4/30	4.60	3.61b	18.25	16.52b	110	
Mammoth-Cottonwood Creek	4/26	54	25.0	30.3	19.1							
Middle Fork		Not Measured										
Mt. Baldy R.S.	4/25	80	33.8	- -	24.2	4/25	1.50	3.93	29.80	20.83	143	
Oak Creek		Not Measured										
Pickle Keg Springs	4/25	44	16.7	22.2	15.1b							
Pine Creek	4/30	32	14.8	24.4	13.6	4/30	8.11	5.88	28.02	29.35	105	
Ree's Flat	4/25	28	9.7	11.4	- -	4/25	2.00	- -	17.61	- -	- -	
Shingle Mill	4/27	0	0.0	- -	3.2b	4/27	- -	3.87b	19.25	19.55	98	
Thistle Flat		Not Measured										
BEAVER RIVER												
Beaver Race Track	4/27	0	0.0	0.0	- -							
Beaver Canyon Power House						4/30	5.40	2.30	22.59	10.83	209	
Big Flat	4/30	75	30.2	30.2	18.6	4/30	5.90	3.47	29.49	19.00	155	
Merchant's Valley (upper)	4/30	37	15.8	13.2	5.9b	4/30	5.96	2.96b	24.93	17.21	145	
Otter Lake	4/30	57	24.4	24.8	12.1							
PAROWAN CREEK												
Birch Crossing	4/30	0	0.0	0.0	2.5b							
Brian Head	4/30	73	32.6	29.2	20.8b							
Tall Poles	4/30	42	18.8	14.8	12.3b	4/30	1.50	3.48b	21.55	18.37b	117	
Yankee Reservoir	4/30	25	10.4	3.6	7.0	4/30	3.88	3.01	20.23	15.14	134	
ENTERPRISE TO NEW HARMONY DRAINAGES												
Little Grassy Creek	4/27	0	0.0	0.0	0.2	4/27	.25	1.80	26.20	16.29	161	
Long Flat	4/30	0	0.0	0.0	2.3	4/30	.78	2.27	21.43	13.90	154	

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
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				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>COAL CREEK</u>											
Cedar City Golf Course SUSC Ranch	4/26	Not Measured 24	11.5	3.8	2.5b						
<u>COLORADO RIVER DRAINAGE</u>											
<u>UPPER GREEN RIVER - UTAH</u>											
Ashley-Twin Lakes (A)	4/27	51	15.3	20.2	16.4b						
Black's Fork G.S.-East Fork	4/26	22	7.6	9.8	9.9	4/26	1.24a	3.35	11.66	15.29	76
Black's Fork Junction	4/26	15	5.3	6.4	8.7	4/26	1.14a	3.08	10.80	14.70	73
Buck Pasture (A)	4/27	45	15.3	18.2	- -						
Burnt Creek		Data Delayed									
Dutch John Junction		Data Delayed									
Grizzly Ridge		Data Delayed									
Henry's Fork (A)	4/27	36	11.5	16.3	14.0b						
Hewinta G.S.	4/26	22	9.0	8.3	10.4	4/26	1.33a	3.59	12.48	16.15	77
Hickerson Park	4/26	22	7.0	3.9	5.9b	4/26	- -	3.56b	10.07	12.97	78
King's Cabin (upper)	4/24	35	9.8	10.2	10.3						
Reynolds Park (A)	4/27	58	20.3	17.0	- -						
Spirit Lake	4/26	44	15.3	12.1	15.5	4/26	- -	4.94b	18.08	18.55	97
Steel Creek Park	4/26	45	14.2	18.5	18.7						
Trout Creek	4/24	33	9.9	9.4	- -						
Windy Park (A)	4/27	36	10.8	13.0	11.0b						
<u>DUCHESNE RIVER</u>											
Atwood Lake (A)	4/27	42	13.9	15.3	- -						
Brown Duck Ridge	4/24	53	21.5	23.6	20.2a	4/24	- -	- -	20.95	- -	- -
Chepeta-Whiterocks (A)	4/27	53	18.6	15.5	14.9b						
Currant Creek	4/24	13	5.9	3.4	2.3b	4/24	.50	2.41b	21.92	16.20	135
Daniels-Strawberry Summit	4/24	29	12.7	16.2	9.5	4/24	1.30	3.28	22.40	21.09	106
East Portal	4/30	15	6.8	5.5	4.4b	4/30	1.88	2.99b	21.76	19.72	110
Five Points Lake (A)	4/27	48	14.4	19.8	- -						
Indian Canyon	4/25	46	16.9	15.0	10.9	4/25	1.22e	2.68	21.88a	15.46	142
Jackson Park	4/24	48	16.0	15.8	- -	4/24	- -	- -	18.86	- -	- -
Lakefork Basin (A)	4/27	62	21.1	24.4	- -						
Lakefork Mountain	4/24	36	10.7	12.3	11.9	4/24	2.32a	3.08	15.99	15.70	102
Lakefork Mountain #3	4/24	7	2.4	0.2	2.1						
Lightning Lake (A)	4/27	68	23.1	24.8e	- -						
Mosby Mountain	4/24	40	11.9	13.0	9.9	4/24	.93	3.18b	18.23	15.18	120
Paradise Park	4/24	54	18.8	16.2	14.3	4/24	2.33a	3.91	24.45	16.96	144
Rock Creek Ranch	4/24	0	0.0	0.0	1.3b						
Strawberry Divide	4/30	48	20.1	20.1	- -						
<u>PRICE RIVER</u>											
Gooseberry Reservoir						4/26	1.70	3.60	26.29	21.71	121
Dry Valley Divide Alternate	4/25	16	5.6	1.8	- -						
Mud Creek	4/27	27	9.6	12.7	7.9	4/27	.70	2.96	19.15a	17.21	111
White River #1	4/25	38	15.4	14.4	10.5	4/25	.90	2.84	19.98	16.06	124
White River #3	4/27	0	0.0	0.0	1.0b						
<u>SAN RAFAEL RIVER</u>											
Buck Flat	4/25	50	19.9	26.4	15.4	4/25	1.70	3.24	24.45	20.45	120
Huntington-Horseshoe	4/26	70	30.0	39.3	- -						
Orange Olsen	4/27	0	0.0	0.0	- -	4/27	.00	1.13b	12.25	8.53	144
Red Pine Ridge	4/26	42	15.9	21.1	14.8	4/25	1.90	3.60	24.60	23.39	105
Seeley Creek R.S.	4/25	54	20.5	24.8	17.2	4/25	2.52	- -	- -	- -	- -
Stuart R.S.	4/27	3	0.8	1.8	1.8	4/27	.30	2.15	14.98	13.77	109
Upper Joe's Valley	4/25	19	8.0	9.5	5.7						
Wrigley Creek	4/25	37	13.4	13.5	8.1						
<u>MUDDY RIVER</u>											
Black's Fork	4/25	40	14.4	21.3	- -						
Dill's Camp	4/25	31	11.1	20.1	9.9a	4/25	1.10	- -	20.91	- -	- -
<u>FREMONT RIVER</u>											
Black's Flat-U.M. Creek	4/30	30	11.8	11.4	8.8	4/30	3.19	2.65	18.27	14.75	124
Donkey Reservoir	4/30	18	6.8	- -	- -						
Fish Lake	4/30	26	11.3	0.0	5.4	4/30	3.60	2.16	15.40	11.34	136
Johnson Valley	4/30	15	5.9	6.2	4.4						

SNOW

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SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	4/25	50	22.0	4.6	7.1	4/25	1.47	2.75	32.56	20.89	156
Camp Jackson	4/25	52	22.3	8.5	5.8	4/25	1.25	2.42	34.63	19.20	180
LaSal Mountain (lower)	4/26	21	8.4	6.1	4.3						
LaSal Mountain (upper)	4/26	52	22.2	23.9	12.6	4/26	1.50	2.99	23.24	17.17	135
Monticello City Park	4/26	0	0.0	0.0	- -						
VIRGIN RIVER											
Kolob-Crystal	4/30	78	38.9	37.0	22.5a						
Long Valley Junction	4/26	0	0.0	0.0	0.0b						
Webster Flat	4/30	59	32.7	33.6	13.8	4/30					
a - Partly Estimated											
b - Average of past record in average period - less than 15 years											
+ - 1963-77 15 year average period											
(A) - Aerial Marker Reading											

INDEX TO UTAH,* BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO	STATE	NAME	SEC	TWP	RGE	ELEV.	NO.	STATE	NAME	SEC	TWP	RGE	ELEV.	NO	STATE	NAME	SEC	TWP	RGE	ELEV.
UPPER BEAR RIVER (above Harer, Idaho)																				
10G11	W	Big Park	19	27N	117W	8,700	11J25P	U	Sootstone R.S.	9	35	8E	7,800	9J1PST	U	King's Cabin (upper)	22	15	21E	8,730
10G16P	W	Burt's-Miller Ranch	19	3N	10E	7,900	11J19	U	South Fork R.S.	24	45	2E	6,100	10J37P	U	McCoy Park	6	1N	17E	10,680
10G7	W	CCC Camp x	5	29N	118W	7,500	11J18	U	Timpanogas Cave Camp	27	45	2E	5,500	10J2	U	Middle Beaver Creek	31	3N	18E	8,650
10J36P	W	Gald Hill	15	1N	9E	10,000	11J21PST	U	Timpanogas Divide	33	45	3E	8,140	9J10aP	U	Reynolds Park	9	1S	16E	10,400
10J7PST	W	Hayden Fork	25	1N	9E	9,400	10J8PST	U	Triol Lake	5	25	9E	9,960	9J7P	U	Spirit Lake	10	1N	17E	10,300
10G12	W	Kelly Ranger Station	33	26N	118W	8,200								10J20PST	U	Steel Creek Park	17	2N	13E	10,100
10J35P	W	Lily Lake	34	2N	10E	8,500								9J16PST	U	Trout Creek	9	1S	20E	9,400
10G6	W	Monte Cristo R.S.	4	8N	8E	8,960								9J12ap	U	Windy Park	2	1S	20E	9,400
10G8P	W	Paisan Meadows x	29	30N	116W	8,500														
10G13MP	W	Salt River Summit x	32	29N	118W	7,900														
10J17P	U	Snyder Basin x	15	29N	115W	8,400														
	U	Strifwater Camp	32	2N	10E	8,550														
LOWER BEAR RIVER (below Harer, Idaho)																				
11H37aPST	U	Bug Lake	18	11N	5E	7,950	12J2	U	Bevan's Cabin	24	45	4W	6,450							
11G11	U	Christensen Ranch	27	13S	41E	5,600	12J5P	U	Deseret Peak	15	45	7W	9,250							
11H38b	U	Cinnamon Creek	5	8N	3E	7,300	11J41P	U	Lamb's Canyon #2	21	1S	3E	7,500							
12H1P	U	Clarkston Mainline	29	14N	2W	6,300	12J3P	U	Middle Canyon	8	45	3W	7,000							
11G12	U	Cub River Ranger Station	5	15S	41E	5,400	11J44	U	Rock Creek	23	1S	3E	7,400							
12G4	U	Dry Creek Flat	30	13S	42E	7,900	12J1P	U	Rock Creek	10	45	2E	9,400							
11G14a	U	Dry Creek Flat	31	13S	37E	6,350	12J1P	U	Rock Creek	10	45	2E	9,400							
11G16	U	Enigrant Summit	21	12S	42E	7,350	12J1P	U	Rock Creek	10	45	2E	9,400							
11G7	U	Enigrant Summit	21	12S	42E	7,350	12J1P	U	Rock Creek	10	45	2E	9,400							
11G8MPST	U	Franklin Basin	24	12S	41E	8,000	12M18	U	High-Top Mountain	36	25S	1E	11,400							
11H7MP	U	Garden City Summit	34 & 35	11N	3E	7,600	12M18	U	High-Top Mountain	36	25S	1E	11,400							
11H40p	U	Hard Hollow	3	11N	3E	7,200	12L6P	U	Kimberly Mine	11	27S	9W	9,800							
11H40p	U	Hanshose Basin	31	13S	42E	8,000	12M7P	U	Kimberly Mine	11	27S	9W	9,800							
11H1G15a	U	Klondike Narrows	10	14N	3E	7,400	12M7P	U	Kimberly Mine	11	27S	9W	9,800							
11H1MP	U	Klondike Narrows	10	14N	3E	7,400	12M7P	U	Kimberly Mine	11	27S	9W	9,800							
11G13	U	Liberty Springs	7	13S	42E	8,240	12M2MPST	U	Kimberly Mine	11	27S	9W	9,800							
11H426	U	Little Bear (lower)	16	8N	1E	6,000	12M7P	U	Kimberly Mine	11	27S	9W	9,800							
11H25PST	U	Little Bear (lower)	22	8N	1E	6,550	12M7P	U	Kimberly Mine	11	27S	9W	9,800							
12G3	U	Oxford Creek Divide	32	13S	37E	6,800	12M19	U	Kimberly Mine	11	27S	9W	9,800							
11G5	U	Slug Creek Divide	15	10S	44E	7,225	12L5	U	Squaw Springs	3	27S	2W	9,300							
11G7	U	Slug Creek Divide	15	10S	44E	7,225														
11H28	U	Slug Creek Divide	15	10S	44E	7,225														
11G9	U	Slug Creek Divide	9	14S	3E	5,900														
11H10	U	Strawberry Mink Divide	14	13S	41E	6,800	11K13P	U	Beaver Dam	22	19S	3E	8,000							
11H10	U	Strawberry Mink Divide	14	13S	41E	6,800	11K11PST	U	Farnsworth Lake	34	23S	2E	9,600							
11H13MP	U	Tony Grove Lake	5	13N	3E	8,400	11K10P	U	G. B. R. C. Headquarters	21	17S	4E	8,700							
11G4P	U	Willow Flat	2	15S	41E	6,100	11K10P	U	G. B. R. C. Meadows	27	17S	4E	8,700							
	U						11K2PST	U	Gooseberry R.S.	21	23S	2E	8,000							
	U						11K34	U	Manmoth R.S.-Caltanwood Creek	13	13S	5E	8,800							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U	Middle Park	16	18S	4E	9,600							
	U						11K12P	U												

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

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SOIL CONSERVATION SERVICE
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water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

MAY 23 '73

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